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Chemicals and Resins

LIR, Liquid isoprene rubber

ISOBAM, Isobutylene polymer

Kuraray produces a number of special synthetic resins using isoprene and isobutylene, one of which is LIR. A liquid synthetic rubber, LIR is used as a reactive plasticizer in rubber, and in inorganic-solvent-based adhesives. **ISOBAM**, a copolymer of isobutylene and maleic anhydride, is used as an adhesive.

Applications

- reactive plasticizer (tires, rollers, etc.)
- adhesive -modifiers -inorganic binder
- waterproofing, water retention, desiccators, insulation

Company : Elastomer Division (Chemicals Company)



Products

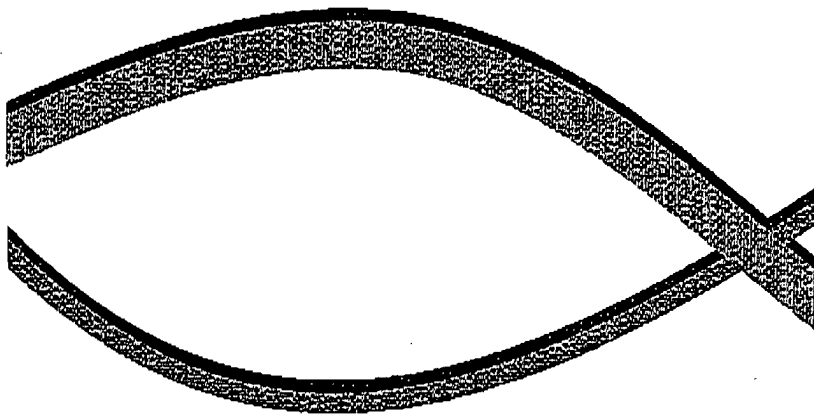
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WATER SOLUBLE POLYMER
ISOBAM



ISOBAM is the trade name of an alternative copolymer of isobutylene and maleic anhydride developed by KURARAY using their POVAL[®] (polyvinyl alcohol) technology.

ISOBAM is an alkali water soluble polymer with outstanding characteristics which have never been acquired by conventional water soluble polymers such as polyvinyl alcohol and cellulose derivatives.

ISOBAM is a white powder in appearance. It is generally used as a water soluble polymer reacting with sodium hydroxide, ammonia and amine.

Various useful reactants are obtained by the reaction of ISOBAM with alcohol, amine and epoxy compounds. These can be applied to resins and plastics.

■ Applications

- Adhesives
 - SBR emulsion type
 - Polyvinyl acetate type
- Protective colloids
 - Vinyl acetate
 - Acrylic monomers



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■ Applications

- **Adhesives**
 - SBR emulsion type
 - Polyvinyl acetate type
- **Protective colloids**
 - Vinyl acetate
 - Acryloyl monomer
 - Vinyl chloride
 - Micro-capsule for pressure sensitive paper
- **Binders**
 - Binder for ceramic powder
 - Binder for solid catalyst
- **Metal processing oils**
 - Lubricant for forging
 - Hardening agent for steel
- **Super absorbent polymers**
 - Chemical pocket heater
 - Sealing materials
- **Dispersants**
 - Water-reducing agent for cement
 - Scale inhibitor
 - Dispersing agent for pesticide
 - Water soluble paint
- **Coating for papers**
 - Coating agent for thermal paper
- **Plastic modifications**

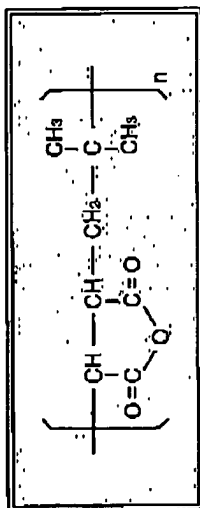
Physical properties of “ISOBAM”

	Molecular weight	Appearance	Grading distribution	Residue (%)	Wetting point	Packed specific gravity (g/cm ³)	Volume fraction (%)
ISOBAM-001	5,000 ~ 65,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.7	± 4
ISOBAM-002	55,000 ~ 85,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.5	± 4
ISOBAM-003	90,000 ~ 90,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.9	± 4
ISOBAM-004	160,000 ~ 170,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.5	± 4
ISOBAM-005	300,000 ~ 350,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.9	± 4
ISOBAM-006	55,000 ~ 65,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.5	—
ISOBAM-007	160,000 ~ 170,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.5	—
ISOBAM-008	55,000 ~ 65,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.5	—
ISOBAM-009	90,000 ~ 90,000	Powder	12 ~ 200 mesh ≥ 88%	1.3	None	0.3 ~ 0.9	—
NIGEC	∞	Powder	20 mesh ≥ 95%	1.3	None	0.6 ~ 0.9	—

* Weight-average molecular weight

X

Standard type of "ISOBAM"



CAS NO. 26426-80-2
TSCA Registered

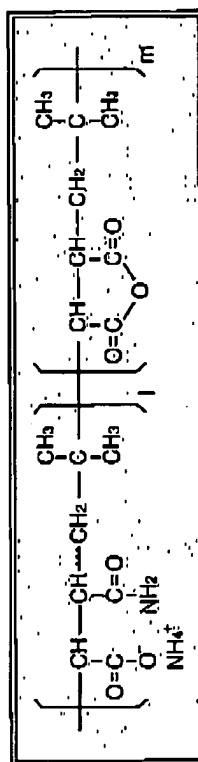
Differing from conventional water soluble polymers, ISOBAM is used by reacting with alkali.

These alkali solutions can be easily modulated from low viscosity to high viscosity and from acidity to alkalinity.

Standard type of ISOBAM is used as binders with excellent heat resistance, and



Amide-ammonium salt type of "ISOBAM"

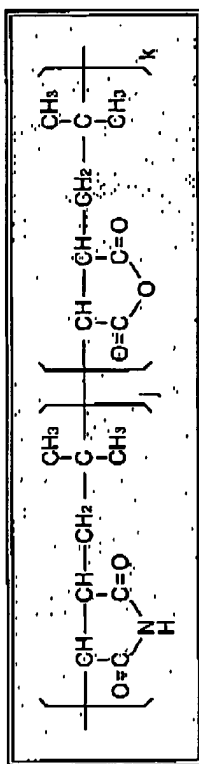


CAS.NO. 52032-17-4

TSCA Under making application to TSCA

ISOBAM

Imide type of "ISOBAM"



CAS NO. 89360-06-5

TSCA Under making application to TSCA.

ISOBAM-304,306

ISOBAM-304 and 306 are Imide types of ISOBAM. These are imide degenerated monomers based on Standard type ISOBAM